

AFRL-SA-WP-SR-2013-0015

**Publications and
Presentations of the
Ophthalmology Branch,
U.S. Air Force School of
Aerospace Medicine,
2006-2010**

**Thomas J. Tredici
John M. Gooch**

December 2013



**Distribution A: Approved for public
release; distribution is unlimited.
Case Number: 88ABW-2014-0039,
10 Jan 2014**

**Air Force Research Laboratory
711th Human Performance Wing
School of Aerospace Medicine
Aerospace Medicine Department
Ophthalmology Branch
2510 Fifth St.
Wright-Patterson AFB, OH 45433-7913**

NOTICE AND SIGNATURE PAGE

Using Government drawings, specifications, or other data included in this document for any purpose other than Government procurement does not in any way obligate the U.S. Government. The fact that the Government formulated or supplied the drawings, specifications, or other data does not license the holder or any other person or corporation or convey any rights or permission to manufacture, use, or sell any patented invention that may relate to them.

Qualified requestors may obtain copies of this report from the Defense Technical Information Center (DTIC) (<http://www.dtic.mil>).

AFRL-SA-WP-SR-2013-0015 HAS BEEN REVIEWED AND IS APPROVED FOR PUBLICATION IN ACCORDANCE WITH ASSIGNED DISTRIBUTION STATEMENT.

//SIGNATURE//

DR. DANIEL L. VAN SYOC
Deputy Chief, Aerospace Med Consultation

//SIGNATURE//

COL LAURA TORRES-REYES
Deputy Chair, Aerospace Medicine Dept

This report is published in the interest of scientific and technical information exchange, and its publication does not constitute the Government's approval or disapproval of its ideas or findings.

REPORT DOCUMENTATION PAGE				<i>Form Approved</i> OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.					
1. REPORT DATE (DD-MM-YYYY) 1 Dec 2013		2. REPORT TYPE Special Report		3. DATES COVERED (From – To) January 2006 – December 2010	
4. TITLE AND SUBTITLE Publications and Presentations of the Ophthalmology Branch, U.S. Air Force School of Aerospace Medicine, 2006-2010				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S) Thomas J. Tredici, John M. Gooch				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) USAF School of Aerospace Medicine Aerospace Medicine Dept Ophthalmology Branch/FECO 2510 Fifth St. Wright-Patterson AFB, OH 45433-7913				8. PERFORMING ORGANIZATION REPORT NUMBER AFRL-SA-WP-SR-2013-0015	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSORING/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION / AVAILABILITY STATEMENT Distribution A: Approved for public release; distribution is unlimited. Case Number: 88ABW-2014-0039, 10 Jan 2014					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT Aerospace ophthalmology combines the practice of clinical ophthalmology and aerospace medicine in attempting to solve the visual and ophthalmological problems of the aviator and astronaut. The Ophthalmology Branch of the U.S. Air Force School of Aerospace Medicine has exclusively performed this task for nearly 93 years. The visual problems and solutions proposed are documented in the publications and invited presentations of Ophthalmology Branch personnel, listed for the years 2006-2010. They deal primarily with applied visual and clinical topics, such as visual standards for flying, the use of contact lenses in aviation, visual illusions and aircraft accidents, air-to-air target acquisition, management of glaucoma in flying personnel, refractive surgery in the aviator, etc.					
15. SUBJECT TERMS Aerospace ophthalmology, visual standards, refractive surgery, vision in aviation, and eye problems in aviation					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT SAR	18. NUMBER OF PAGES 21	19a. NAME OF RESPONSIBLE PERSON Lt Col Wanda Parham-Bruce
a. REPORT U	b. ABSTRACT U	c. THIS PAGE U			19b. TELEPHONE NUMBER (include area code)

This page intentionally left blank.

TABLE OF CONTENTS

	Page
2005	
PUBLICATIONS	1
2006	
PUBLICATIONS	2
PRESENTATIONS.....	3
2007	
PUBLICATIONS	5
PRESENTATIONS.....	6
2008	
PUBLICATIONS	8
PRESENTATIONS.....	9
2009	
PUBLICATIONS	11
PRESENTATIONS.....	12
2010	
PUBLICATIONS	14
PRESENTATIONS.....	15

This page intentionally left blank.

2005

PUBLICATIONS

1. **EFFECTS OF POSITIVE ACCELERATION ON CORNEAL STABILITY IN PHOTOREFRACTIVE KERATECTOMY (PRK) SUBJECTS**

Thompson WT, O'Connor RB, Dooley JW, Tutt RC, Ivan DJ, Baldwin JB, and Hiers PL

USAF School of Aerospace Medicine Technical Report (SAM-FE-BR-TR-2005-0002). Brooks City-Base, TX. June 2005

2006

PUBLICATIONS

1. **RETESTING COLOR VISION IN TRAINED USAF AIR CREW**
Ivan DJ, Gooch JM, and Rabin JC
Abstract: Aviation, Space, and Environmental Medicine, Vol. 77, No. 3; March 2006
2. **VISUAL AND OCULAR FINDINGS OF ASTRONAUT CANDIDATES**
Tredici TJ and Ivan DJ
Abstract: Aviation, Space, and Environmental Medicine, Vol. 77, No. 3; March 2006
3. **USAF AVIATION SPECTACLE FRAME OF CHOICE PROGRAM**
Tutt RC, Ivan DJ, and Tredici TJ
Abstract: Aviation, Space and Environmental Medicine, Vol. 77, No. 3; March 2006
4. **CLINICAL PROGRESSIVE TO KERATOCONUS IN USAF PILOT APPLICANTS WITH TOPOGRAPHIC PATTERN SUGGESTIVE OF KERATOCONUS**
Gooch JM, Ivan DJ, and Thornberry M
Abstract: Aviation, Space, and Environmental Medicine, Vol. 77, No. 3; March 2006
5. **OPERATIONAL BASED VISION ASSESSMENT**
Clark P, Ivan DJ, and Giovannetti D
Abstract: Aviation, Space, and Environmental Medicine, Vol. 77, No. 3; March 2006
6. **COMPLETE ASSESSMENT OF CONTRAST SENSITIVITY FOR AEROSPACE VISION**
Rabin JC, Ivan DJ, and Linnemeyer S
Abstract: Aviation, Space, and Environmental Medicine, Vol. 77, No.3; March 2006
7. **NIGHT FIRING PERFORMANCE FOLLOWING PHOTOREFRACTIVE KERATECTOMY AND LASER IN SITU KERATOMILEUSIS**
Bower KS, Burka JM, Subramanian PS, Stutzman RD, Mines MJ, and Rabin JC
Military Medicine; 2006 Jun; 171(6):468-71
8. **THE U.S. AIR FORCE PHOTOREFRACTIVE KERATECTOMY (PRK) STUDY: EVALUATION OF RESIDUAL REFRACTIVE ERROR AND HIGH- AND LOW-CONTRAST VISUAL ACUITY**
Miller RE, Thompson WT, Ivan DJ, Tutt RC, Baldwin JB, LoRusso FJ, Smith RE, and Hiers PL
USAF School of Aerospace Medicine Technical Report (AFRL-SA-BR-TR-2010-0011). Brooks City-Base, TX. Jul 2006
9. **PERSCRIBING SPECTACLES FOR USAF AVIATORS: 2ND EDITION.**
Kent JF and Miller RE
Aerospace Medicine, Brooks City-Base, TX. Final Draft Oct 2006
10. **A PROSPECTIVE STUDY OF THE EYEPORTR VISION TRAINING SYSTEM**
Laukkanen H and Rabin JC
Optometry, Oct 2007; 77(10):508-14

PRESENTATIONS

1. **C F FLIGHT SURGEON COURSE (4-TOPICS)**

Ivan DJ

Presentation: DRDC, Toronto, Canada; Feb 2006

2. **AEROMEDICAL VISION LECTURES (4-TOPICS)**

Ivan DJ

Presentation: Wilmer Eye Institute of Johns Hopkins University - Current Concepts in Ophthalmology Course, Dorado, Puerto Rico; Feb 2006

3. **PROTECTION OF THE AVIATOR'S VISION FROM HIGH INTENSITY LIGHT: A HISTORICAL REVIEW**

Tredici TJ

Presentation: Lasers on the Modern Battlefield Conference. Brooks City-Base, TX; 27 Feb 2006

4. **RETESTING COLOR VISION IN TRAINED AIRCREW**

Ivan DJ, Gooch JM, and Rabin JC

Presentation: Aerospace Medical Association Annual Meeting. Orlando, FL; 14-18 May 2006

5. **VISUAL AND OCULAR FINDINGS OF ASTRONAUT CANDIDATES**

Tredici TJ and Ivan DJ

Presentation: Aerospace Medicine Association Annual Meeting: Orlando, FL; 14-18 May 2006

6. **USAF AVIATION SPECTACLE FRAME OF CHOICE PROGRAM**

Tutt RC, Ivan DJ, and Tredici TJ

Presentation: Aerospace Medicine Association Annual Meeting. Orlando, FL; 14-18 May 2006

7. **COMPLTE ASSESSMENT OF CONTRAST SENSITIVITY FOR AEROSPACE VISION**

Rabin JC, Ivan DJ, and Linnemeyer S

Presentation: Aerospace Medicine Association Annual Meeting. Orlando, FL; 14-18 May 2006

8. **CLINICAL PROGRESSIVE TO KERATOCONUS IN USAF PILOT APPLICANTS WITH TOPOGRAPHIC PATTERNS SUGGESTIVE OF KERATOCONUS**

Gooch JM, Ivan DJ, and Thornberry

Presentation: Aerospace Medical Association Annual Meeting, Orlando, FL; 14-18 May 2006

9. **OPERATIONAL BASED VISION ASSESSMENT**

Clark P, Ivan DJ, and Giovannetti D

Presentation: Aerospace Medical Association Annual Meeting, Orlando, FL; 14-18 May 2006

10. **A NEW METRIC FOR QUALIFYING THE IMPACT OF HIGHER ORDER ABERRATIONS**

Rabin JC, Linnemeyer S, Foxworth M, and Ivan DJ

Poster Presentation: Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Fort Lauderdale, FL; May 2006

11. **AEROMEDICAL VISION LECTURES (5-TOPICS)**

Ivan DJ

Presentation: At the RAF Diploma in Aviation Medicine Course, RAF Heathrow, UK; 05-06 Jun 2006

12. **OPHTHALMOLOGICAL CHALLENGES AND ISSUES IN OPERATIONAL FLIGHT MEDICINE**

Ivan DJ

Presentation: 52nd German Air Force Flight Surgeons Conference, Berlin, Germany; 6-9 Jun 2006

13. **CORNEAL TOPOGRAPHIC PATTERN SUGGESTIVE OF KERATOCONUS (TPSK): RISK FACTOR FOR PROGRESSIVE CLINICAL KERATOCONUS IN USAF PILOT APPLICANTS (**Best Poster Award)**
Gooch JM, Ivan DJ, and Tredici TJ
Poster Presentation: American Academy of Ophthalmology Meeting, Las Vegas, NV;
11-14 Nov 2006
14. **THE IMPACT OF BLUE-BLOCKING INTRAOCULAR LENSES ON COLOR VISION PERFORMANCE**
Rubin RM, Ivan DJ, Gooch JM,, and Tsang A
Poster Presentation: American Academy of Ophthalmology Meeting, Las Vegas, NV,
11-14 Nov 2006
15. **A NEW CLINICAL TEST OF NIGHT VISION GOGGLE PERFORMANCE**
Rabin JC, DeMordaunt R, Simpson D, Hiers P, Ivan DJ, Foxworth M, and Linnemeyer S
Poster Presentation: American Academy of Optometry. Denver, CO; Dec 2006
16. **CONTRAST SENSITIVITY AND COLOR VISION: FROM BASIC SCIENCE TO CLINICAL APPLICATION**
Rabin JC
Poster Presentation: American Academy of Optometry; Denver, CO; Dec 2006

2007

PUBLICATIONS

1. **AEROMEDICAL VISION RESEARCH AT BROOKS**

Tredici TJ and Ivan DJ

Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX; Eagle Applied Sciences, LLC, Brooks City-Base, TX

Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

2. **INCIDENCE AND EFFECTS OF RESIDUAL REFRACTIVE ERRORS AFTER PRK IN TRAINED PILOTS AND PILOT CANDIDATES**

Miller RE, Wright ST, Tutt RC, Clark PJ, Gooch JM, Ivan DJ, and Hiers PL

Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX

Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

3. **THE UTILITY OF NON-TRADITIONAL VISION TESTING IN IDENTIFYING COMPLICATIONS AFTER PRK**

Wright ST, Miller RE, Clark PJ, Tutt RC, Rabin JC, Gooch JM, Ivan DJ, Thompson WT and Hiers PL

Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX

Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

4. **THE PREVALANCE OF CORRECTIVE LENSES AMONG U.S. AIR FORCE PILOTS**

Clark PJ, Miller RE, Tutt RC, Leonard J, Myatt R, and Gooch JM

Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX; Air Force Population Health Scientific Studies, Brooks City-Base, TX

Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

5. **COLOR VISION PERFORMANCE WITH BLUE-BLOCKING IOLS**

Ivan DJ, Rubin RM, Rabin JC, Tsang A, Gooch JM, Linnemeyer S, and Foxworth M

Abstract: Eagle Applied Sciences, LLC, Brooks City-Base, TX; USAF School of Aerospace Medicine, Brooks City-Base, TX

Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

6. **SENSITIVITY OF COLOR VISION SCREENING: ALTERNATIVES FOR THE FUTURE**

Rabin RC, Gooch JM, Ivan DJ, Linnemeyer S, and Foxworth M

Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX; Eagle Applied Science, LLC, Brooks City-Base, TX

Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

7. **CLINICAL ASSESSMENT OF NIGHT VISION GOGGLE USER PERFORMANCE**

Rabin JC, Ivan DJ, Gooch JM, Foxworth M, Linnemeyer S, and Hiers PL

Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX; Eagle Applied Science, LLC, Brooks City-Base, TX

Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

8. **OPHTHALMIC SURGERIES AND ISSUES**

Ivan DJ

Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX; Eagle Applied Science, LLC, Brooks City-Base, TX

Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

PRESENTATIONS

1. **OPHTHALMOLOGY ISSUE IN AGING AIRCREW**
Ivan DJ
Presentation: 2007 NATO Flight Surgeon's Conference, Ramstein AB, Germany; March 2007
2. **THE WILLIAM K. STEWART MEMORIAL LECTURE OF ROYAL AERONAUTICAL SOCIETY**
Ivan DJ
Presentation: Royal Aeronautical Society, London, England; 14 March 2007
3. **INTRA-OCULAR LENSES IN MILITARY AIRCREW**
Ivan DJ
Presentation: City University School of Optometry, London, England; 15 March 2007
4. **CURRENT OPHTHALMOLOGY ISSUES IN AIRCREW**
Ivan DJ
Presentation: Royal Air Force Centre of Aviation Medicine, RAF Heathrow, England; 19 March 2007
5. **THE IMPACT OF BLUE-BLOCKING INTRA-OCULAR LENSES ON S-CONE COLOR VISION**
Rabin JC, Ivan DJ, et al.
Presentation: Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL; 10 May 2007
6. **BEYOND 20/20 NEW METRICS FOR QUANTIFYING SUBNORMAL AND SUPERNORMAL VISION**
Rabin JC and Ivan DJ
Presentation: Association for Research in Vision and Ophthalmology (AFVO), Fort Lauderdale, FL; 10 May 2007
7. **AEROMEDICAL VISION RESEARCH AT BROOKS CITY-BASE TX**
Tredici TJ and Ivan DJ
Presentation: Aerospace Medical Association Annual Meeting, New Orleans, LA; 13-17 May 2007
8. **CATARACT SURGERY AND INTRA-OCULAR IMPLANTS IN USAF AIRCREW**
Ivan DJ
Presentation: University of Colorado Ophthalmology Residency Program, Denver, CO; 29 June 2007
9. **THE UTILITY OF NON-TRADITIONAL VISION TESTING IN IDENTIFYING COMPLICATION AFTER PRK**
Wright ST, Miller RE, et al.
Presentation: Aerospace Medical Association Annual Meeting. New Orleans, LA; 13-17 May 2007
10. **INCIDENCE AND EFFECTS OF RESIDUAL REFRACTIVE ERRORS AFTER PRK IN TRAINED USAF PILOTS AND PILOT CANDIDATES**
Miller RE, Wright ST, et al.
Presentation: Aerospace Medical Association Annual Meeting. New Orleans, LA; 13-17 May 2007
11. **COLOR VISION PERFORMANCE WITH BLUE-BLOCKING IOLS**
Ivan DJ, Rubin RM, Rabin JC, Tsang A, Gooch JM, Linnemeyer S, and Foxworth M
Presentation: Aerospace Medical Association Annual Meeting, New Orleans, LA; 13-17 May 2007

12. THE PREVALANCE OF CORRECTIVE LENSES AMONG U.S. AIR FORCE PILOTS

Clark PJ, Miller RE, Tutt RC, Leonard J, Myatt R, and Gooch JM

Presentation: Aerospace Medical Association Annual Meeting, New Orleans, LA; 13-17 May 2007

13. SENSITIVITY OF COLOR VISION SCREENING: ALTERNATIVES FOR THE FUTURE

Rabin JC, Gooch JM, Ivan DJ, Linnemeyer S, and Foxworth M

Presentation: Aerospace Medical Association Annual Meeting, New Orleans, LA; 13-17 May 2007

14. OPHTHALMIC SURGERIES AND ISSUES

Ivan DJ

Presentation: Aerospace Medical Association Annual Meeting, New Orleans, LA; 13-17 May 2007

15. CLINICAL ASSESSMENT OF NIGHT VISION GOGGLE USER PERFORMANCE

Rabin JC, Ivan DJ, Gooch JM, Foxworth M, Linnemeyer S, and Hiers PL

Presentation: Aerospace Medical Association Annual Meeting, New Orleans, LA; 13-17 May 2007

16. REVIEW OF A CASE OF PSEUDOPLAKIA IN A NAVIGATOR

Surjit Sahu, Hewagama A, and Tredici TJ

Presentation: Aerospace Medical Association Annual Meeting, New Orleans, LA; 13-17 May 2007

17. RAF DIPLOMA IN AVIATION MEDICINE LECTURES (5 TOPICS)

Ivan DJ

Presentation: RAF Diploma in Aviation Medicine Course, RAF Henlow, England; 6-8 June 2007

2008

PUBLICATIONS

1. **CLINICAL PRACTICE GUIDELINES FOR CATARACTS**
Gooch JM
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008
2. **CORRECTIVE LENS USE AND THE INTEREST IN REFRACTIVE SURGERY AMONG USAF PILOTS**
Wright ST, Clark PJ, Tutt TC, Stanek S, and Gooch JM
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008
3. **HOW MANY SUBJECTS AND MORE: STATISTICS REVIEW FOR PATIENT CENTERED CLINICAL RESEARCH**
Rabin JC, Thompson WT, Rubin RM, and Gooch JM
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008
4. **USAF AVIATION SPECTACLE FRAME OF CHOICE: NEW DEVELOPMENTS**
Tutt RC, Ivan DJ, Gooch JM, and Tredici TJ
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008
5. **VISUAL PERFORMANCE IN THE EARLY MONTHS FOLLOWING PRK**
Wright S, Stanek S, Rabin JC, Gooch JM, and Thompson BT
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008
6. **AUTOMATED TESTING OF CONE CONTRAST SENSITIVITY**
Rabin JC, Gooch JM, and Ivan DJ
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008
7. **EFFECTIVENESS OF THE FARNSWORTH LANTERN, D-15 AND FM-100 HUE TESTS TO IDENTIFY COLOR VISION DEFECTIVES WITHIN A PRE-SCREENED USAF PILOT CANDIDATE POOL**
Ivan DJ, Kurz C, Gooch JM, Rabin JC, and Thompson WT
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008
8. **IS 20/20 GOOD ENOUGH? QUALITY OF VISION TESTING FOR TODAY AND TOMORROW**
Rabin JC, Gooch JM, Ivan DJ, Rubin RM, Linnemeyer S, and Foxworth M
USAF School of Aerospace Medicine, Brooks City-Base, TX
Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008
9. **OPHTHALMOLOGY TRAINING FOR THE USAF FLIGHT SURGEON**
Tredici TJ, Gooch JM, Ivan DJ, Rubin RM, and Thomas R
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008

PRESENTATIONS

1. **REFRACTIVE SURGERY IN AIRCREW COLOR VISION ISSUES IN MILITARY AVIATION USAF COLOR VISION TESTING METHODOLOGY: THE LASER THREAT IN AVIATION**

Ivan DJ

Presentation: C F Flight Surgeons Course- DROC, Toronto, Ontario, Canada; Feb 2008

2. **USAF COLOR VISION TESTING STRATOGRAM METHODOLOGY**

Ivan DJ, Gooch JM, and Tredici TJ

Presentation: Aerospace Medical Association (ASMA) Annual Meeting at the Color Vision Testing Workshop. Boston, MA; 11 May 2008

3. **THE EFFECTIVENESS OF THE FARMSWORTH LANTERN, D-15, AND FM-100 HUE TESTS TO IDENTIFY COLOR VISION DEFECTIVE WITHIN A PRE-SCREENED USAF PILOT CANDIDATE POOL**

Ivan DJ, Rabin JC, et al.

Presentation: Aerospace Medical Association (ASMA) Annual Meeting at the Color Vision Testing Workshop. Boston, MA; 11 May 2008

4. **USAF AVIATION SPECTACLE OF CHOICE: NEW DEVELOPMENTS**

Tutt RC, Ivan DJ, Gooch JM, Tredici TJ

Poster Presentation: Aerospace Medical Association (ASMA) Annual Scientific Meeting, Boston, MA; 12 May 2008

5. **SENSITIVITY OF COLOR VISION SCREENING: ALTERNATIVES FOR THE FUTURE**

Rabin JC, Ivan DJ, Gooch JM; Linnemeyer S, and Foxworth M

Presentation: Aerospace Medical Association (ASMA) Annual Meeting at the Color Vision Testing Workshop, Boston, MA; 12 May 2008

6. **AUTOMATED TESTING OF CONE CONTRAST SENSITIVITY**

Rabin JC, Gooch JM, and Ivan DJ

Presentation: Aerospace Medical Association (ASMA) Annual Meeting at the Color Vision Testing Workshop, Boston, MA; 13 May 2008

7. **IS 20/20 GOOD ENOUGH? QUALITY OF VISION TESTING FOR TODAY AND TOMORROW**

Rabin JC, Gooch JM, Ivan DJ, et al.

Presentation: Aerospace Medical Association (ASMA) Annual Meeting at the Color Vision Testing Workshop, Boston, MA; 12 May 2008

8. **OPHTHALMOLOGY TRAINING FOR THE USAF FLIGHT SURGEON**

Tredici TJ, Gooch JM, Ivan DJ, Rubin RM, and Thomas R

Presentation: Aerospace Medical Association (ASMA) Annual Meeting at the Color Vision Testing Workshop, Boston, MA; 12 May 2008

9. **CLINICAL PRACTICE GUIDELINE FOR CATARACTS**

Gooch JM

USAF School of Aerospace Medicine, Brooks City-Base, TX

Presentation: Aerospace Medical Association (ASMA) Annual Meeting at the Color Vision Testing Workshop, Boston, MA; 12 May 2008

10. **CORRECTIVE LENS USE AND THE INTEREST IN REFRACTIVE SURGERY AMONG USAF PILOTS**

Wright ST, Clark PJ, Tutt, RC, Stanek S, and Gooch JM

Presentation: Aerospace Medical Association (ASMA) Annual Meeting at the Color Vision Testing Workshop, Boston, MA; 11 May 2008

**11. OCULAR INJURY REDUCTION FROM OCULAR PROTECTION USE IN
CURRENT COMBAT OPERATIONS**

Thomas R

Presentation: 12th International Conference on Emerging Medicine, San Antonio, TX; April 2008

2009

PUBLICATIONS

1. **AIRCREW SUN PROTECTION CATARACTS OR SUNGLASSES?**
Ivan DJ, Tutt RC, Tredici TJ, and Gooch JM
Eagle Applied Sciences, USAFSAM/FECO, Brooks City-Base, TX; Northrop Grumman Corp;
USAFSAM/FECO, Brooks City-Base, TX; USAFSAM, Aerospace Ophthalmology Branch, Brooks
City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009
2. **MEASURED COGNITIVE SPATIAL TESTING PERFORMANCE AND WAIVED
DEFECTIVE STEREOPSIS AS USAF PILOT TRAINING GRADUATION
PREDICTORS**
Serkowski R, Novy PL, Gooch JM, Thompson WT, and Chappelle W
USAF School of Aerospace Medicine, Brooks City-Base, TX; USAFSAM Neuropsychiatry Branch,
Brooks City-Base, TX; USAFSAM, Aeromedical Consultation Service, Neuropsychiatry Branch,
Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009
3. **THE SUPER VISION-NVG TEST**
Rabin JC, Gooch JM, Davies B, Ivan DJ, Linnemeyer S, and Foxworth M
Aerospace Ophthalmology Branch, USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009
4. **SURGICAL CORRECTION OF PRESBYOPIC AIRCREW**
Gooch JM, Tredici TJ, Tutt RC, and Aaron MT
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009
5. **PRESBYOPIA: NEMESIS OF THE SENIOR AVIATOR**
Tredici TJ, Tutt RC, Gooch JM, Aaron MT, Wright ST, Clark PJ, and Miller RL
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009
6. **PRESBYOPIA CONSIDERATION IN THE COCKPIT ENVIRONMENT**
Tutt RC, Tredici TJ, Gooch JM, and Aaron MT
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009
7. **OPERATIONALLY BASED VISION ASSESSMENT LABORATORY
DEVELOPMENT**
Gooch JM, Sweet B, Clark PJ, Gaska JP, Winterbottom M, Rader J, and Aaron MT
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009
8. **USAF QUALITY OF VISION (QOV) IMPLEMENTATION**
Tutt RC, Aaron MT, and Gooch JM
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009
9. **SPECTRAL FILTER EFFECTS ON NIGHT VISION GOGGLE ACUITY AND
PRESERVATION OF DARK ADAPTION**
Wright ST, Thomas RS, Clark PJ, Stanek SR, Gooch JM, and Thompson WT
USAF School of Aerospace Medicine, Brooks City-Base, TX
Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009

10. **ANTI-REFLECTIVE COATING OPERATIONAL PERFORMANCE EVALUATION**
Clark PJ, Wright ST, Stanek SR, Gooch JM, and Thompson WT
 USAF School of Aerospace Medicine, Brooks City-Base, TX
 Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009
11. **THE EFFECT OF BLUE ON LANDOLT C ACUITY AND SIMULATED AIRCRAFT FEATURE IDENTIFICATION**
Gaska JP, Clark PJ, Winterbottom M, Sweet B, and Gooch JM
 Link Simulation and Training, Mesa, AZ; USAF School of Aerospace Medicine, Brooks City-Base, TX; AFRL, Mesa, AZ; NASA Ames Research Center, Moffett Field, CA
 Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009
12. **OCULAR INJURY REDUCTION FROM OCULAR PROTECTION USE IN CURRENT COMBAT OPERATIONS**
Thomas RS, McManus JG, Johnson A, Mayer P, Wade C, and Holcomb JB
 Journal of Trauma 2009; 66(4 Suppl):S99-103
13. **OPTICAL FILTER EFFECTS ON NIGHT VISION GOGGLE ACUITY AND PRESERVATION OF DARK ADAPTATION**
Thomas RS, Wright ST, Clark PJ, Thompson WT, and Gooch JM
 Aviation, Space, and Environmental Medicine 2010; 81(9):869-72
14. **PEOPLE OF VISION: BOOK REVIEW**
Tredici TJ
 San Antonio Medicine, Vol. 62, No. 8; August 2009

PRESENTATIONS

1. **REFRACTIVE SURGERY IN AIRCREW COLOR VISION IN MILITARY AVIATION THE LASER THREAT IN AVIATION**
Ivan DJ
 Presentation: C F Flight Surgeons Course (DRDC), Toronto, Ontario, Canada; Feb 2009
2. **MEASURED COGNITIVE SPATIAL TESTING PERFORMANCE AND WAIVED DEFECTIVE STEREOPSIS ON USAF PILOT TRAINING GRADUATION PREDICTORS**
Ivan DJ, Tutt RC, Tredici TJ, and Gooch JM
 Presentation: Aerospace Medical Association Annual Scientific Meeting, Los Angeles, CA; 3-7 May 2009
3. **THE EFFECT OF BLUE ON LANDOLT "C" ACUITY AND SIMULATED AIRCRAFT FEATURE IDENTIFICATION**
Gaska JP, Clark PJ, Winterbottom M, Sweet B, and Gooch JM
 Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA; 3-7 May 2009
4. **ANTI-REFLECTIVE COATING OPERATIONAL PERFORMANCE EVALUATION**
Clark PJ, Wright ST, Stanek SR, Gooch JM, and Thompson WT
 Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA; 3-7 May 2009
5. **SPECTRAL FILTER EFFECTS ON NIGHT VISION GOGGLE ACUITY AND PRESERVATION OF DARK ADAPTATION**
Wright ST, Thomas RS, Clark PJ, Stanek SR, Gooch JM, and Thompson WT
 Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA; 3-7 May 2009

6. **USAF QUALITY OF VISION (QOV) IMPLEMENTATION**
Tutt RC, Aaron MT, and Gooch JM
Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA;
3-7 May 2009
7. **OPERATIONAL BASED VISION ASSESSMENT LABORATORY DEVELOPMENT**
Gooch JM, Sweet B, Clark PJ, Gaska JP, Winterbottom M, Rader J, and Aaron MT
Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA;
3-7 May 2009
8. **PRESBYOPIC CONSIDERATIONS IN THE COCKPIT ENVIRONMENT**
Tutt RC, Tredici TJ, Gooch JM, and Aaron MT
Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA;
3-7 May 2009
9. **PRESBYOPIA: NEMESIS OF THE SENIOR AVIATOR**
Tredici T, Tutt RC, Gooch JM, Aaron MT, Wright ST, Clark PJ, and Miller RL
Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA;
3-7 May 2009
10. **SURGICAL CORRECTION OF PRESBYOPIC AIRCREW**
Gooch JM, Tredici TJ, Tutt RC, and Aaron MT
Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA;
3-7 May 2009
11. **THE SUPER VISION NVG TEST**
Rabin JC, Gooch JM, Davies B, Ivan DJ, Linnemeyer S, and Foxworth M
Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA;
3-7 May 2009
12. **AIRCREW SUN PROTECTION: CATARACTS OR SUNGLASSES?**
Ivan DJ, Tutt RC, Tredici TJ, and Gooch JM
Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA;
3-7 May 2009
13. **REFRACTIVE SURGERY IN MILITARY AIRCREW COLOUR VISION ISSUES
LASERS AND COMBAT LASER INJURIES INTRAOCULAR LENSES IN
MILITARY AIRCREW NIGHT VISION DEVICES**
Ivan DJ
Presentation: RAF Diploma in Aviation Medicine Course RAF Henlow, England; June 2009

2010

PUBLICATIONS

1. **PIXEL SIZE REQUIREMENTS FOR AN EYE-LIMITED FLIGHT SIMULATION LABORATORY FOR OPERATIONAL BASED VISION ASSESSMENT**
Gaska J, Winterbottom M, Gooch JM, Aaron MT, Clark PJ, Rader J, and Sweet B
Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010
2. **WAVEFRONT DERIVED SPECTACLE LENS PERSCRIPTIONS FOR KERATOCONUS**
Clark PJ, Wright ST, Collins R, Autrey J, Gooch JM, Thompson WT, Lehman R, and Garcia P
Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010
3. **UPDATE: CLINICAL PROGRESSION TO KERATOCONUS IN USAF PILOT APPLICANTS WITH TOPOGRAPHIC PATTERN SUGGESTIVE OF KERATOCONUS**
Gooch JM, Wright ST, Rubin RM, Ivan DJ, and Davis RE
Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010
4. **SENSITIVITY, SPECIFICITY AND APPLICATION OF THE CONE CONTRAST TEST IN THE PILOT APPLICANT POPULATION**
Rabin JC, Gooch JM, Rubin RM, Linnemeyer S, and Foxworth M
Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010
5. **COLOR VISION DEFECTS ASSOCIATED WITH OPTIC NERVE HEAD DRUSEN IN USAF AVIATORS**
Ivan DJ, David RE, Rabin JC, Rubin RM, Gooch JM, and Tredici TJ
Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010
6. **OPTIC NERVE HEAD DRUSEN (ONHD) IN UNITED STATES AIR FORCE AIRCREW: A RETROSPECTIVE REVIEW**
David RE, Rubin RM, Gooch JM, Ivan DJ, and Tredici TJ
Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010
7. **EFFECT OF HIGH ALTITUDE ON LASER ASSISTED IN SITU KERATOMILEUSIS (LASIK) EYES**
Aaron MT, Gooch JM, Harvey RR, Davis RE, and Tutt RC
Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010
8. **PERMANENT GROUNDING OF A USAF PILOT FOLLOWING PHOTOREFRACTIVE KERATECTOMY (PRK): A CASE REPORT**
Ivan DJ, Gooch JM, Rubin RM, Tredici TJ, and Davis RE
Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010
9. **MYOPIA - NEMESIS OF THE MILITARY AVIATOR**
Tredici TJ, Ivan DJ, and Gooch JM
Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010

PRESENTATIONS

1. **MILITARY PILOT TRAINING IN WORLD WAR II**

Tredici TJ

Presentation: Fellows Group at the Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 10 May 2010

2. **MYOPIA: NEMESIS OF THE MILITARY AVIATOR**

Tredici TJ

Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 13 May 2010

3. **PERMANENT GROUNDING OF A USAF PILOT FOLLOWING PHOTOREFRACTIVE KERATECTOMY (PRK): A CASE REPORT**

Ivan DJ, Gooch JM, Rubin RM, Tredici TJ, and Davis RE

Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 9-13 May 2010

4. **PIXEL SIZE REQUIREMENTS FOR AN EYE-LIMITED FLIGHT SIMULATION LABORATORY FOR OPERATIONAL BASED VISION ASSESSMENT**

Gaska J, Winterbottom M, Gooch JM, Aaron MT, Clark PJ, Rader J, and Sweet B

Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 9-13 May 2010

5. **UPDATE: CLINICAL PROGRESSION TO KERATOCONUS IN USAF PILOT APPLICANTS WITH TOPOGRAPHIC PATTERN SUGGESTIVE OF KERATOCONUS**

Gooch JM, Wright ST, Rubin RM, and Davis RE

Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 9-13 May 2010

6. **WAVEFRONT DERIVED SPECTACLE LENS PERSCRIPTIONS FOR KERATOCONUS**

Clark PJ, Wright ST, Collins R, Autrey J, Gooch JM, Thompson WT, Lehman R, and Garcia P

Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 9-13 May 2010

7. **SENSITIVITY, SPECIFICITY AND APPLICATION OF THE CONE CONTRAST TEST IN THE PILOT APPLICANT POPULATION**

Rabin JC, Gooch JM, Rubin RM, Linnemeyer S, and Foxworth M

Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 9-13 May 2010

8. **COLOR VISION DEFECTS ASSOCIATED WITH OPTIC NERVE HEAD DRUSEN IN USAF AVIATORS**

Ivan DJ, Davis RE, Rabin JC, Rubin RM, Gooch JM, and Tredici TJ

Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 9-13 May 2010

9. **OPTIC NERVE HEAD DRUSEN (ONHD) IN UNITED STATES AIR FORCE AIRCREW: A RETROSPECTIVE REVIEW**

Davis RE, Rubin RM, Gooch JM, Ivan DJ, and Tredici TJ

Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 9-13 May 2010

10. **EFFECT OF HIGH ALTITUDE ON LASER ASSISTED IN SITU KERATOMILEUSIS (LASIK) EYES**

Aaron MT, Gooch JM, Harvey RR, Davis RE, and Tutt RC

Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 9-13 May 2010